

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

9

7

<i>Complete if Known</i>	
Application Number	10/566,496
Filing Date	01/31/2006
First Named Inventor	Gilbert Gorr
Art Unit	1636
Examiner Name	Nancy Vogel
Attorney Docket Number	GRNO-0511

Examiner Signature	/Nancy Vogel/	Date Considered	10/13/2009
-----------------------	---------------	--------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ² Applicant's unique citation designation number (optional). ³ See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ⁴ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁷ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.V./

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

2

of

Complete if Known

Application Number	10/566,496
Filing Date	01/31/2006
First Named Inventor	Gilbert Gorr
Art Unit	1636
Examiner Name	Nancy Vogel
Attorney Docket Number	GRNO-0511

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)				
	F7	EP 0 175 966 A1	04-02-1986	CALGENE INC.		
	F8	EP 0 290 395 A2	05-03-1988	SANDOZ-ERFINDUNGEN		
	F9	EP 0 331 083 A2	02-27-1989	SCHWEIZERISCHE EIDGEN		
	F10	EP 0 434 616 A1	12-11-1990	SAUTTER		
	F11	EP 0 444 882 B1	02-26-1991	MONSANTO COMPANY		
	F12	EP 1 206 561 B1	09-27-2000	GREENOVATION BIOTECH		

Examiner Signature	/Nancy Vogel/	Date Considered	10/13/2009
-----------------------	---------------	--------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.V./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	3	of	6
-------	---	----	---

Complete if Known

Application Number	10/566,496
Filing Date	01/31/2006
First Named Inventor	Gilbert Gorr
Art Unit	1636
Examiner Name	Nancy Vogel
Attorney Docket Number	GRNO-05U1

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

/Nancy Model/

Date
Considered

10/13/2009

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.V./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Application Number	10/566,496		
		Filing Date	01/31/2006		
		First Named Inventor	Gilbert Gorr		
		Art Unit	1636		
		Examiner Name	Nancy Vogel		
Sheet	4	of	6	Attorney Docket Number	GRNO-05U1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	D1	ASSAAD, Epigenetic repeat-induced gene silencing (RIGS) in Arabidopsis, Plant Mol. Biol. 22:1067-1085 (1993)	
	D2	BORISJUK, Production of recombinant proteins in plant root extracts, Nature Biotechnology 17:466-469 (1999)	
	D3	CADDICK, An ethanol inducible gene switch for plants used to manipulate carbon metabolism, Nature Biotechnology 16:177-180 (1998)	
	D4	DEPICKER, Nopaline synthase: transcript mapping and dna sequence, J. Mol. Appl. Genet. 1(6):561-573 (1982)	
	D5	ENGEL, The induction of Biochemical and Morphological mutants in the moss physcomitrella patens, Amer. J. Biot. 55(4):438-446 (1968)	
	D6	FREEMAN, A comparison of methods for plasmid delivery into plant protoplasts, Plant & Cell Physiol. 25(8)1353-1365 (1984)	
	D7	GORR, Biotechnologische Nutzung von physcomitrella patens, Dissertation (1999)	
	D8	GORR et al, Using a moss for the expression of recombinant human vascular endothelial growth factor: an alternative, Naunyn-Schmiedeberg's Arch. Pharmacol. 329 Suppl.R86 (2001)	
	D9	GRIMSLEY et al. The production of somatic hybrids by protoplast fusion in the moss, physcomitrella patens Molec. gen. Genet 154:97-100(1977)	
	D10	HERLITSCHKA et al, Overexpression of human prothrombin in permanent cell lines using a dominant selection/amplification fusion marker, Prot. Express. and Pur 8, 358-364 (1996)	

Examiner Signature	/Nancy Vogel/	Date Considered	10/12/2000
--------------------	---------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.V./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/566,496		
		Filing Date	01/31/2006		
		First Named Inventor	Gilbert Gorr		
		Art Unit	1636		
		Examiner Name	Nancy Vogel		
Sheet	5	of	6	Attorney Docket Number	GRNO-05U1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	D11	HOHE et al., Optimisation of a bioreactor culture of the moss Physcomitrella patens for mass production of protoplasts, Plant Sci 165:354-358 (1985)	
	D12	KAMMERER et al., Genetic analysis of the effects of retransformation of transgenic lines of the moss physcomitrella patens, Mol. Gen. Genet. 250:380-382 (1996)	
	D13	KINDLE, High-frequency nuclear transformation of chlamydomonas reinhardtii, Proc. Natl. Acad. Sci. 87:1228-1232 (1990)	
	D14	MA et al, Intrinsic direct repeats generate consistent post-transcriptional gene silencing in tobacco, Plant J. (2002) Abstract	
	D15	OARD, Physical methods for the transformation of plant cells, Biotech. Adv. 6:1-11 (1991)	
	D16	PEARSON, Rapid and sensitive sequence comparison with fastp and fasta, Methods in Enzymology 183:63-98 (1990)	
	D17	RESKI et al, Genome analysis of moss Physcomitrella patens, Mol Gen Genet 244:352-359 (1994)	
	D18	RESKI et al, Induction of budding on chloronemata and caulonemata of the moss, physcomitrella patens, using isopentyladenine, Planta 165:354-358 (1985)	
	D19	REUTTER et al, Production of a heterologous protein in bioreactor cultures of fully differentiated moss plants, Plant Tissue Culture and Biotechnology 2(3):142-147	
	D20	RINGOLD, Co-expression and amplification of dihydrofolate reductase cDNA and the escherichia coli XGPRT gene in chinese hamster ovary cells, J Mol Appl Genet 1(3):165-75 (1985)	

Examiner Signature	/Nancy Vogel/	Date Considered	10/13/2009
--------------------	---------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.V./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number 10/566,496

Filing Date 01/31/2006

First Named Inventor Gilbert Gorr

Art Unit 1636

Examiner Name Nancy Vogel

Sheet 6 of 6 Attorney Docket Number GRNO-05U1

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	D21	ROTHER, Fate of a mutant macrochloplast in somatic hybrids, J. Plant Physiol. 143:72-77 (1994)	
	D22	SCHAEFER, A new moss genetics: targeted mutagenesis in physcomitrella patens, Annu. Rec. Plant. Biol. 53:477-501 (2002)	
	D23	SCHAEFER, Stable transformation of the moss physcomitrella patens, Mol. Gen. Genetics 226:418-424 (1991)	
	D24	SCHAEFER, Principles and protocols for the moss physcomitrella patens, http://www.unil.ch/lpc/docs/PPprotocols2001.pdf (2001)	
	D25	STREP et al, Plant nuclear gene knockout reveals a role in plastid division for the homolog of the bacterial cell division protein FtsZ Proc Natl Acad Sci 95:4368-4373 (1998)	
	D26	TOPFER et al. Versatile cloning vectors for transient gene expression and direct gene transfer in plant cells, NAR 16:8725 (1988)	
	D27	TOPFER et al, A set of plant expression vectors for transcriptional and translational fusions, NAR15, 5890 (1987)	
	D28	ZEIDLER et al, Transgene expression in the moss ceratodon purpureus, J Plant Physiol. 154:641-550 (1999)	

Examiner
Signature

/Nancy Vogel/

Date

Considered

10/13/2009

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.V./



Complete if Known

(Use as many sheets as necessary)

Sheet	1	of	1
-------	---	----	---

Application Number	10/566,496
Filing Date	01/31/2006
First Named Inventor	Gilbert Gorr
Art Unit	1636
Examiner Name	Nancy Vogel
Attorney Docket Number	GRNO-05U1

[illegible]

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ² * Number * Kind Code ³ (if known)				
	F1	WO 87/06614	11-05-1987	SZALAY		
	F2	WO 90/12096	10-18-1990	LOW et al		
	F3	WO 92/09696	06-11-1992	D'HALLUIN et al		
	F4	WO 94/00583	01-06-1994	ESPINASSET-GELLNER		
	F5	WO 01/12456 A2	04-12/2001	RESKI et al		
	F6	WO 02/097080 A2	12-05-2002	KLIMYUK et al		

**Examiner
Signature**

Date	Considered
11/1/78	11/1/78
11/2/78	11/2/78
11/3/78	11/3/78
11/4/78	11/4/78
11/5/78	11/5/78
11/6/78	11/6/78
11/7/78	11/7/78
11/8/78	11/8/78
11/9/78	11/9/78
11/10/78	11/10/78
11/11/78	11/11/78
11/12/78	11/12/78
11/13/78	11/13/78
11/14/78	11/14/78
11/15/78	11/15/78
11/16/78	11/16/78
11/17/78	11/17/78
11/18/78	11/18/78
11/19/78	11/19/78
11/20/78	11/20/78
11/21/78	11/21/78
11/22/78	11/22/78
11/23/78	11/23/78
11/24/78	11/24/78
11/25/78	11/25/78
11/26/78	11/26/78
11/27/78	11/27/78
11/28/78	11/28/78
11/29/78	11/29/78
11/30/78	11/30/78
12/1/78	12/1/78
12/2/78	12/2/78
12/3/78	12/3/78
12/4/78	12/4/78
12/5/78	12/5/78
12/6/78	12/6/78
12/7/78	12/7/78
12/8/78	12/8/78
12/9/78	12/9/78
12/10/78	12/10/78
12/11/78	12/11/78
12/12/78	12/12/78
12/13/78	12/13/78
12/14/78	12/14/78
12/15/78	12/15/78
12/16/78	12/16/78
12/17/78	12/17/78
12/18/78	12/18/78
12/19/78	12/19/78
12/20/78	12/20/78
12/21/78	12/21/78
12/22/78	12/22/78
12/23/78	12/23/78
12/24/78	12/24/78
12/25/78	12/25/78
12/26/78	12/26/78
12/27/78	12/27/78
12/28/78	12/28/78
12/29/78	12/29/78
12/30/78	12/30/78
12/31/78	12/31/78

Signature _____

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ⁵ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁶ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁷ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁸ Applicant is to place a check mark here if English language Translation is attached.

The information is required to obtain or retain a benefit by the public which is to file (and by the

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. 1-800-PTO-9199 (1-800-786-9199) and select option 2.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.V./

~~Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.~~

Complete if Known

(Use as many sheets as necessary)

Sheet	2	of	6
-------	---	----	---

Application Number	10/566,496
Filing Date	01/31/2006
First Named Inventor	Gilbert Gorr
Art Unit	1636
Examiner Name	Nancy Vogel
Attorney Docket Number	GRNO-05U1

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY			
	F7	EP 0 175 966 A1	04-02-1986	CALGENE INC		
	F8	EP 0 290 395 A2	05-03-1988	SANDOZ-ERFINDUNGEN		
	F9	EP 0 331 083 A2	02-27-1989	SCHWEIZERISCHE EIDGEN		
	F10	EP 0 434 616 A1	12-11-1990	SAUTTER		
	F11	EP 0 444 582 B1	02-26-1991	MONSANTO COMPANY		
	F12	EP 1 206 561 B1	09-27-2000	GREENOVATION BIOTECH		

**Examiner
Signature**

Date	
Considered	

*EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.V./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/566,496
Filing Date	01/31/2006
First Named Inventor	Gilbert Gorr
Art Unit	1636
Examiner Name	Nancy Vogel
Attorney Docket Number	GRNO-05U1

Sheet

3

of

6

Attorney Docket Number

GRNO-05U1

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

Date
Considered

*EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND COMPLETED FORMS TO: P.O. Box 1450, Alexandria, VA 22313-1450.**

TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.V./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Sheet <u>4</u> of <u>6</u>	Application Number	10/566,496	
	Filing Date	01/31/2006	
	First Named Inventor	Gilbert Gorr	
	Art Unit	1636	
	Examiner Name	Nancy Vogel	
		Attorney Docket Number	GRNO-05U1

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	D1	ASSAAD, Epigenetic repeat-induced gene silencing (RIGS) in Arabidopsis, Plant Mol. Biol. 22:1067-1085 (1993)	
	D2	BORISJUK, Production of recombinant proteins in plant root extracts, Nature Biotechnology 17:466-469 (1999)	
	D3	CADDICK, An ethanol inducible gene switch for plants used to manipulate carbon metabolism, Nature Biotechnology 16:177-180 (1998)	
	D4	DEPICKER, Nopaline synthase: transcript mapping and dna sequence, J. Mol. Appl. Genet. 1(6):561-573 (1982)	
	D5	ENGEL, The induction of Biochemical and Morphological mutants in the moss physcomitrella patens, Amer. J. Bot. 55(4):438-446 (1968)	
	D6	FREEMAN, A comparison of methods for plasmid delivery into plant protoplasts, Plant & Cell Physiol. 25(8):1353-1365 (1984)	
	D7	GORR, Biotechnologische Nutzung von physcomitrella patens, Dissertation (1999)	
	D8	GORR et al, Using a moss for the expression of recombinant human vascular endothelial growth factor: an alternative, Naunyn-Schmiedeberg's Arch. Pharmacol. 329 Suppl.R86 (2001)	
	D9	GRIMSLEY et al. The production of somatic hybrids by protoplast fusion in the moss, physcomitrella patens Molec. gen. Genet 154:97-100(1977)	
	D10	HERLITSCHKA et al, Overexpression of human prothrombin in permanent cell lines using a dominant selection/amplification fusion marker, Prot. Express. and Pur 8, 358-364 (1996)	

Examiner Signature		Date Considered	
-------------------------------	--	----------------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.V./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/566,496
		Filing Date	01/31/2006
		First Named Inventor	Gilbert Gorr
		Art Unit	1636
		Examiner Name	Nancy Vogel
Sheet 5 of 6	Attorney Docket Number	GRNO-05U1	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	D11	HOHE et al., Optimisation of a bioreactor culture of the moss Physcomitrella patens for mass production of protoplasts, Plant Sci 165:354-358 (1985)	
	D12	KAMMERER et al., Genetic analysis of the effects of retransformation of transgenic lines of the moss physcomitrella patens, Mol. Gen. Genet. 250:380-382 (1996)	
	D13	KINDLE, High-frequency nuclear transformation of chlamydomonas reinhardtii, Proc. Natl. Acad. Sci. 87:1228-1232 (1990)	
	D14	MA et al, Intrinsic direct repeats generate consistent post-transcriptional gene silencing in tobacco, Plant J. (2002) Abstract	
	D15	OARD, Physical methods for the transformation of plant cells, Biotech. Adv. 6:1-11 (1991)	
	D16	PEARSON, Rapid and sensitive sequence comparison with fastp and fasta, Methods in Enzymology 183:63-98 (1990)	
	D17	RESKI et al, Genome analysis of moss Physcomitrella patens, Mol Gen Genet 244:352-359 (1994)	
	D18	RESKI et al, Induction of budding on chloronemata and caulonemata of the moss, physcomitrella patens, using isopentyladenine, Planta 165:354-358 (1985)	
	D19	REUTTER et al, Production of a heterologous protein in bioreactor cultures of fully differentiated moss plants, Plant Tissue Culture and Biotechnology 2(3):142-147	
	D20	RINGOLD, Co-expression and amplification of dihydrofolate reductase cDNA and the escherichia coli XGPRT gene in chinese hamster ovary cells, J Mol Appl Genet 1(3):165-75 (1985)	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.V./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number 10/566,496

Filing Date 01/31/2006

First Named Inventor Gilbert Gorr

Art Unit 1636

Examiner Name Nancy Vogel

Sheet 6 of 6 Attorney Docket Number GRNO-05U1

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	D21	ROTHER, Fate of a mutant macrochloplast in somatic hybrids, J. Plant Physiol. 143:72-77 (1994)	
	D22	SCHAEFER, A new moss genetics: targeted mutagenesis in physcomitrella patens, Annu. Rec. Plant. Biol. 53:477-501 (2002)	
	D23	SCHAEFER, Stable transformation of the moss physcomitrella patens, Mol. Gen. Genetics 226:418-424 (1991)	
	D24	SCHAEFER, Principles and protocols for the moss physcomitrella patens, http://www.unil.ch/lpc/docs/PPprotocols2001.pdf (2001)	
	D25	STREP et al, Plant nuclear gene knockout reveals a role in plastid division for the homolog of the bacterial cell division protein FtsZ Proc Natl Acad Sci 95:4368-4373 (1998)	
	D26	TOPFER et al. Versatile cloning vectors for transient gene expression and direct gene transfer in plant cells, NAR 16:8725 (1988)	
	D27	TOPFER et al, A set of plant expression vectors for transcriptional and translational fusions, NAR15, 5890 (1987)	
	D28	ZEIDLER et al, Transgene expression in the moss ceratodon purpureus, J Plant Physiol. 154:641-550 (1999)	

Examiner
SignatureDate
Considered

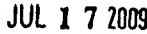
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.V./



PTO/SB/08a (06-09)

Approved for use through 07/31/2009. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

6

Complete if Known

Application Number	10/566,496
Filing Date	01/31/2006
First Named Inventor	Gilbert Gorr
Art Unit	1636
Examiner Name	Nancy Vogel
Attorney Docket Number	GRNO-05U1

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	F1	WO 87/06614	11-05-1987	SZALAY		
	F2	WO 90/12096	10-18-1990	LOW et al		
	F3	WO 92/09696	06-11-1992	D'HALLUIN e tal		
	F4	WO 94/00593	01-06-1994	ESPINASSET-GELLNER		
	F5	WO 01/12456 A2	04-12/2001	RESKI et al		
	F6	WO 02/097080 A2	12-05-2002	KLIMYUK et al		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.V./

Complete if Known

(Use as many sheets as necessary)

Sheet	2	of	6
-------	---	----	---

Application Number	10/566,496
Filing Date	01/31/2006
First Named Inventor	Gilbert Gorr
Art Unit	1636
Examiner Name	Nancy Vogel
Attorney Docket Number	GRNO-05U1

[illegible]

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ^o
		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)				
	F7	EP 0 175 966 A1	04-02-1986	CALGENE INC.		
	F8	EP 0 290 395 A2	05-03-1988	SANDOZ-ERFINDUNGEN		
	F9	EP 0 331 083 A2	02-27-1989	SCHWEIZERISCHE EIDGEN		
	F10	EP 0 434 616 A1	12-11-1990	SAUTTER		
	F11	EP 0 444 862 B1	02-26-1991	MONSANTO COMPANY		
	F12	EP 1 205 561 B1	09-27-2000	GREENOVATION BIOTECH		

**Examiner
Signature**

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.V./

Complete if Known

(Use as many sheets as necessary)

Sheet	3	of	10
-------	---	----	----

Application Number	10/566,496
Filing Date	01/31/2006
First Named Inventor	Gilbert Gorr
Art Unit	1636
Examiner Name	Nancy Vogel
Attorney Docket Number	GRNO-05U1

[illegible][illegible]

**Examiner
Signature**

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.V./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/566,496
Filing Date	01/31/2006
First Named Inventor	Gilbert Gorr
Art Unit	1636
Examiner Name	Nancy Vogel
Attorney Docket Number	GRNO-05U1

Sheet

4

of

6

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	D1	ASSAAD, Epigenetic repeat-induced gene silencing (RIGS) in Arabidopsis, Plant Mol. Biol. 22:1067-1085 (1993)	
	D2	BORISJUK, Production of recombinant proteins in plant root extracts, Nature Biotechnology 17:466-469 (1999)	
	D3	CADDICK, An ethanol inducible gene switch for plants used to manipulate carbon metabolism, Nature Biotechnology 16:177-180 (1998)	
	D4	DEPICKER, Nopaline synthase: transcript mapping and dna sequence, J. Mol. Appl. Genet. 1(6):561-573 (1982)	
	D5	ENGEL, The induction of Biochemical and Morphological mutants in the moss physcomitrella patens, Amer. J. Bot. 55(4):438-446 (1968)	
	D6	FREEMAN, A comparison of methods for plasmid delivery into plant protoplasts, Plant & Cell Physiol. 25(8):1353-1365 (1984)	
	D7	GORR, Biotechnologische Nutzung von physcomitrella patens, Dissertation (1999)	
	D8	GORR et al, Using a moss for the expression of recombinant human vascular endothelial growth factor: an alternative, Naunyn-Schmiedeberg's Arch. Pharmacol. 329 Suppl.R86 (2001)	
	D9	GRIMSLEY et al. The production of somatic hybrids by protoplast fusion in the moss, physcomitrella patens Molec. gen. Genet 154:97-100(1977)	
	D10	HERLITSCHKA et al, Overexpression of human prothrombin in permanent cell lines using a dominant selection/amplification fusion marker, Prot. Express. and Pur 8, 358-364 (1996)	

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.V./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/566,496
		Filing Date	01/31/2006
		First Named Inventor	Gilbert Gorr
		Art Unit	1636
Examiner Name	Nancy Vogel		
Attorney Docket Number	GRNO-05U1		
Sheet	5	of	6

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	D11	HOHE et al., Optimisation of a bioreactor culture of the moss <i>Physcomitrella patens</i> for mass production of protoplasts, <i>Plant Sci</i> 165:354-358 (1985)	
	D12	KAMMERER et al., Genetic analysis of the effects of retransformation of transgenic lines of the moss <i>physcomitrella patens</i> , <i>Mol. Gen. Genet.</i> 250:380-382 (1996)	
	D13	KINDLE, High-frequency nuclear transformation of <i>chlamydomonas reinhardtii</i> , <i>Proc. Natl. Acad. Sci.</i> 87:1228-1232 (1990)	
	D14	MA et al, Intrinsic direct repeats generate consistent post-transcriptional gene silencing in tobacco, <i>Plant J</i> (2002) Abstract	
	D15	OARD, Physical methods for the transformation of plant cells, <i>Biotech. Adv.</i> 6:1-11 (1991)	
	D16	PEARSON, Rapid and sensitive sequence comparison with fastp and fasta, <i>Methods in Enzymology</i> 183:63-98 (1990)	
	D17	RESKI et al, Genome analysis of moss <i>Physcomitrella patens</i> , <i>Mol Gen Genet</i> 244:352-359 (1994)	
	D18	RESKI et al, Induction of budding on chloronemata and caulonemata of the moss, <i>physcomitrella patens</i> , using isopentyladenine, <i>Planta</i> 165:354-358 (1985)	
	D19	REUTTER et al, Production of a heterologous protein in bioreactor cultures of fully differentiated moss plants, <i>Plant Tissue Culture and Biotechnology</i> 2(3):142-147	
	D20	RINGOLD, Co-expression and amplification of dihydrofolate reductase cDNA and the <i>escherichia coli</i> XGPRT gene in chinese hamster ovary cells, <i>J Mol Appl Genet</i> 1(3):165-75 (1985)	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.V./

Substitute for form 1449/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(Use as many sheets as necessary)</p>		Complete if Known	
		Application Number	10/566,496
		Filing Date	01/31/2006
		First Named Inventor	Gilbert Gorr
		Art Unit	1636
		Examiner Name	Nancy Vogel
		Attorney Docket Number	GRNO-05U1
Sheet	6	of	6

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	D21	ROTHER, Fate of a mutant macrochloplast in somatic hybrids, J. Plant Physiol. 143:72-77 (1994)	
	D22	SCHAEFER, A new moss genetics: targeted mutagenesis in physcomitrella patens, Annu. Rec. Plant. Biol. 53:477-501 (2002)	
	D23	SCHAEFER, Stable transformation of the moss physcomitrella patens, Mol. Gen. Genetics 226:418-424 (1991)	
	D24	SCHAEFER, Principles and protocols for the moss physcomitrella patens, http://www.unil.ch/lpc/docs/PPprotocols2001.pdf (2001)	
	D25	STREP et al, Plant nuclear gene knockout reveals a role in plastid division for the homolog of the bacterial cell division protein FtsZ Proc Natl Acad Sci 95:4368-4373 (1998)	
	D26	TOPFER et al. Versatile cloning vectors for transient gene expression and direct gene transfer in plant cells, NAR 16:8725 (1988)	
	D27	TOPFER et al, A set of plant expression vectors for transcriptional and translational fusions, NAR15, 5890 (1987)	
	D28	ZEIDLER et al, Transgene expression in the moss ceratodon purpeus, J Plant Physiol. 154:641-550 (1999)	

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.V./